

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

OK

May 23, 2008

TO: Internal File

FROM: James D. Smith, Environmental Scientist *JS* 05/29/08

RE: 2007 Fourth Quarter Water Monitoring, CO-OP Mining Company, Bear Canyon Mine, C/015/0025, Ongoing Task ID # 2716

The monitoring plan is described on pages 7-48 through 7-60A of the MRP. It includes Tables 7-12 through 7-17.

1. **Were data submitted for all of the MRP required sites?**

**In-mine**

YES ☒ NO ☐

SBC-9A replaced SBC-11 for monitoring water in this section of the #1 Mine; however, additional roof falls made Mine #1, including SBC-9A, inaccessible. The pipe that carries the water out of the mine to the culinary water supply is now the location for water quality and quantity monitoring, and SBC-9A has been retained as the name for this sampling site.

**Springs**

YES ☒ NO ☐

**Streams**

YES ☒ NO ☐

**UPDES**

YES ☒ NO ☐

There were no UPDES discharges in the fourth quarter. DMR parameters that are not included in the operational parameter lists in the MRP - such as sanitary wastes, visible foam, and floating solids - are not reported in the electronic submittal to the Division.

**Wells**

YES ☒ NO ☐

2. Were all required parameters reported for each site?

In-mine

YES ☐

NO ☒

Dissolved lead (Pb) was not reported for SBC-9A

Springs

YES ☐

NO ☒

Baseline ammonia (NH<sub>3</sub>) wasn't reported for: SBC-22, SBC-18, SBC-16A, SBC-16B, SCC-2.

Streams

YES ☐

NO ☒

Baseline ammonia (NH<sub>3</sub>) wasn't reported for: MH-2, FC-4, FC-3, FC-2, CK-2, and CK-1. At MH-2, in addition to NH<sub>3</sub>, the following baseline parameters are missing: As, B, Cd, Cu, Pb, Se, Zn, Al, Mb.

UPDES

YES ☒

NO ☐

Wells

YES ☒

NO ☐

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations. An asterisk (\*) indicates the parameter is not required.

In-mine

YES ☐

NO ☒

Springs

YES ☒

NO ☐

FBC-12 October: total Fe and lab electric conductivity;

SBC-3 October: Ca, Mg, K, Na, Cl, total alkalinity, total hardness, TDS, total cations\*, and total anions\*;

SBC-17 October: bicarbonate as CaCO<sub>3</sub>

Streams

YES ☒

NO ☐

CK-2 October: field electric conductivity and Ca;

UPDES

YES ☐

NO ☒

**Wells**

YES ☐ NO ☒

4. **On what date does the MRP require a five-year resampling of baseline water data.**

Baseline parameters are to be taken in August of year 5 prior to each permit renewal (Table 7.14). The next permit renewal date is November 02, 2010, so the baseline analyses should be done on samples collected in August 2010.

5. **Based on your review, what further actions, if any, do you recommend?**

None.

6. **Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?** YES ☒ NO ☐

See comments on missing data under items 2 and 8.

7. **Follow-up from last quarter, if necessary.**

None.

8. **Did the Mine Operator submit all the missing and/or irregular data?**

YES ☐ NO ☒

For monitoring the Mohrland Expansion area, baseline parameters are being measured at new sites and additional baseline data are being collected at sites that were first monitored in the 1990s. Because some baseline parameters for were missed in the analyses done for several of these sites during the fourth quarter 2007, and lead was missed at SBC-9A, Pete Hess wrote hindrance violation N10020 on 15 May, 2008.